

Serial No. Not Yet Assigned
Atty. Doc. No. 2002-11724WOUS

Amendments To The Specification:

In the English translation document, please delete the term --Description-- at page 1 line 1, before the title.

In the English translation document, please add the paragraph at page 1 line 4, after the title, as follows:

--CROSS REFERENCE TO RELATED APPLICATIONS

This application is the US National Stage of International Application No. PCT/EP2003/008997, filed August 13, 2003 and claims the benefit thereof. The International Application claims the benefits of German application No. 10243141.8 filed September 17, 2002, both applications are incorporated by reference herein in their entirety.--

In the English translation document, please add the section heading at page 1 line 4, after the newly added CROSS REFERENCE TO RELATED APPLICATIONS section, as follows:

--FIELD OF THE INVENTION--

In the English translation document, please amend the paragraph at page 1 lines 5-6, as follows:

The invention relates to a method for transmitting optical polarization multiplex signals according to the preamble of Claim 1.

In the English translation document, please add the section heading at page 1 line 7, as follows:

--BACKGROUND OF THE INVENTION--

In the English translation document, please add the paragraph at page 1 line 36, as follows:

An arrangement and a method for transmitting polarization multiplex signals are described in the publication of an unexamined application reference DE 101 56 244 A1. A differential phase modulation is applied at the transmitting end between the orthogonally polarized transmission signals. Said modulation serves to control a common polarization transformer, or to control separate polarization transformers for each transmission channel, by evaluating interferences.

The purpose thereof is to maximize the control rate with a minimal expenditure requirement. The polarization transformer can be embodied for compensating (lacuna). The transmission link is for this purpose simulated with the aid of a double-refracting crystal and employing numerous control voltages as being "inverse", so that the pulse mode dispersion is compensated. The measures taken at the transmitting end are frequently undesirable for reasons of transparency; moreover, both fast and reliable PMD controlling in the optical range remains demanding in terms of expenditure.

In the English translation document, please add the section heading at page 1 line 36, after the newly added paragraph, as follows:

--SUMMARY OF THE INVENTION--

In the English translation document, please amend the paragraph at page 2 lines 1-4, as follows:

The object of the invention is to achieve an increase in transmission capacity during optical data transmission, with said increase being unattended by increased bandwidth requirements for optical and electrical system components, and also to further reduce the expenditure requirements.

In the English translation document, please amend the paragraph at page 2 lines 6-7, as follows:

Said object is achieved by the claims ~~means of a method for optical data transmission according to Claim 1.~~

In the English translation document, please amend the paragraph at page 2 line 9, as follows:

Advantageous developments are indicated in the dependent ~~sub~~claims.

In the English translation document, please amend the paragraph at page 2 lines 30-33, as follows:

The system can of course also be used to transmit a multiplicity of data signals at a lower data rate in parallel. Synchronous transmission is advantageous when the data rates are the same since the polarized signals will influence each other least.

In the English translation document, please add the section heading at page 3 line 26, as follows:

--BRIEF DESCRIPTION OF THE DRAWINGS--

In the English translation document, please add the section heading at page 4 line 10, as follows:

--DETAILED DESCRIPTION OF THE INVENTION--